

SCENARIO #1 - emphasis on relaxation of standards to increase water supply, along with increased protection for delta smelt at export facilities.

Scenario Features - Actively Manage Flex Operations under the following criteria:

1. aggressively trigger relaxation of export standards to provide a net gain for water supply, while providing additional restrictions on exports for added protection beyond Accord, AFRP, and Common Program to delta smelt adults (winter) and young (spring and summer) from entrainment/salvage losses. (Assumed that these and other measures would protect other species - for example, new intake screen systems should provide high salvage survival for salmon, steelhead, and striped bass).
2. provide for limited relaxation of X2 standard to provide additional water supplies in wet, above normal, and below normal years.
3. If monitoring indicates limited risk to fish, export restrictions under Accord would be lifted; otherwise export restrictions would remain in place. (Without export restrictions, environmental protection would be provided under new restrictions for smelt, Accord and AFRP outflow and inflow criteria, and new relaxed X2 standards, as well as flow related components of Common Program.)
4. New water supply developed from new facilities would be allocated to ag/urban water users.

Months	Present Standards	Target	Target Year Type	flex ops triggers (in order of application)	E/I & Export Restrictions	QWEST	X2	VAMP	DCC& Hood	HOR	Habitat
Jan-Mar		<u>Restrictions</u> for delta smelt adults (they show at export facilities in most winters under high exports (8-15kcfs). Salvage events are often associated with declining outflow and QWEST as system operations come under control)	All year types.	1. presence of significant portion of delta smelt population in central and south Delta. 2. Under rapidly falling QWEST and QWEST below 1000cfs. 3. presence of delta smelt in salvage above 100 individuals per day (per facility)	If 1, then limit exports to <10,000 cfs  If 2, then limit exports <8,000 cfs.  If 3, then limit exports <6,000 cfs.	If 1, then maintain at -1,000 or higher - limit drop to 1,000 cfs per week  If 1 and 2, then limit to >500cfs  If 3, then limit to >1,000 cfs	No additional restrictions	NA	Open as needed to satisfy QWEST requirements	If 2, then keep open	If 1, 2, and 3, then flood additional habitat
		<u>Relaxations</u> on exports for the purpose of improving water supply	All year types.	1. delta inflows exceed 50K cfs 2. Delta inflows are steady or rising and exceed 20,000 cfs. 3. 5 day running average of smelt salvage is below 10 individuals per day and monitoring indicates a significant portion of the population is not in the Central or South Delta.	No export constraints under 1 or 2 or 3, except above restrictions apply.	Nothing to relax.	If 1 or 2, and 3, then no constraints.	NA	--	--	--

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Apr-Jun		<u>Restrictions</u> for delta smelt young (they show at export facilities in most springs under a wide range of exports. Salvage events are often associated with declining outflow and QWEST as system operations come under control)	All year types.	1. presence of significant portion of delta smelt population in central and south Delta (winter adults or spring young). 2. Under rapidly falling QWEST and QWEST below 1000cfs. 3. presence of delta smelt in salvage above 500 individuals per day (per facility)	If 1, then limit exports to <10,000 cfs  If 2, then limit exports <8,000 cfs.  If 3, then limit exports <6,000 cfs.	If 1, then maintain at -1,000 or higher; and limit change to 1,000 cfs per week  If 1 and 2, then limit to >500cfs  If 3, then limit to >1,000 cfs	No new constraints.	If 1, 2, and 3, then extend 10 days on either side.	Open as needed to satisfy QWEST requirements	If 1 and 2, then keep open	If 1, 2, and 3, then flood additional habitat
		<u>Relaxations</u> on exports for the purpose of improving water supply	All year types.	1. delta inflows exceed 50K cfs 2. Delta inflows are steady or rising and exceed 20,000 cfs. 3. 5 day running average of smelt salvage is below 100 individuals per day and monitoring indicates a significant portion of the population is not in the Central or South Delta.	No export constraints under 1 or 2, except above restrictions apply.  If 3, then only above restrictions apply.	Nothing to relax.	If 1, or 2, and 3, then no constraints.	No relaxation of experiment	--	--	--

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Jul-Sep		<u>Restrictions</u> for delta smelt young (they show at export facilities in most summers under high exports (8-15kcfs), low outflow (<6,000 cfs), and low QWEST (<-1000). Such conditions do not occur after wet winters/springs years like 1983 and 1995.	All year types.	1. presence of significant portion of delta smelt population in central and south Delta. 2. Under rapidly falling QWEST and QWEST below -1000cfs. 3. presence of delta smelt in salvage above 100 individuals per day (per facility)	If 1, then limit exports to <10,000 cfs  If 2, then limit exports <8,000 cfs.  If 3, then limit exports <6,000 cfs.	If 1, then maintain at -1,000 or higher - limit drop to 1,000 cfs per week  If 1 and 2, then limit to >-500 cfs  If 3, then limit to >0 cfs	No change.	NA	Open as needed to satisfy QWEST requirements	If 2, then keep open	If 1, 2, and 3, then flood additional habitat
		<u>Relaxations</u> on exports for the purpose of improving water supply	All year types.	1. delta inflows exceed 50K cfs 2. Delta inflows are steady or rising and exceed 20,000 cfs. 3. 5 day running average of smelt salvage is below 10 individuals per day and monitoring indicates a significant portion of the population is not in the Central or South Delta.	No export constraints under 1 or 2, except above restrictions apply.  If 3, then only above restrictions apply.	Nothing to relax	If 1, 2, or 3, then no constraints.	NA	--	--	--

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Oct-Dec		<u>Restrictions</u> No new constraint, except latter half of Dec is same as Jan-Mar.	All year types.	None	No new restrictions	None	No change.	NA	--	--	--
		<u>Relaxations</u> on exports for the purpose of improving water supply	All year types.	1. Delta inflows are steady or rising and exceed 20,000 cfs. 2. 5 day running average of smelt salvage is below 10 individuals per day and monitoring indicates a significant portion of the population is not in the Central or South Delta.	If 1 and 2, then no export constraints.	Nothing to relax	If 1 and 2, then no constraints.	NA	--	--	--